Personal Data

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Summary

I am currently doing my Ph.D. in the school of Computing and Electrical Engineering, Tampere University (TAU). I am working on image generative models in object animation under the supervision of Professor Esa Rahtu from Tampere and Professor Juho Kannala from Aalto University. Before joining TAU, I was working as a Researcher at TCS Innovation and Research. I have completed my Master of Technology from the Indian Institute of Technology(IIT) Bhubaneswar which is among the top engineering institutions in India. I was in the top 2% in IIT entrance exam (Graduate aptitude test in engineering) which is considered as one of the toughest exams with a qualifying rate of 15-20 %.

Education

Dec 2017-	Ph.D. student in Faculty of Computing and Electrical Engineering **Tampere University**, Finland Field of Research: Image generative models, Deep learning Advisor: Prof. Esa Rahtu and Prof. Juho Kannala
Aug 2014-July 2016	Master of Technology in Electronics and Communication Engineering **Indian Institute of Technology Bhubaneswar**, India Thesis: "Compressive sensing Techniques- Development and Applications." Advisor: Prof. Ganapati Panda CGPA: 9.15/10
Aug 2010- July 2014	Bachelor of Technology in Electronics and Communication Engineering **Institute of Technical Education and research, SOA University**, Odisha, India Thesis: "Performance Evaluation of MIMO " Advisor: Dr. Benudhar Sahu CGPA: 9.75/10

Experience

July 2016-Nov 2017	Researcher **TCS Innovation and Research**, Kolkata, India Project: I was working on analysis of the sensor signals obtained from different sensors used in Telerehabilitation like Kinect and WII Balance Board to gain insight into the various neuromusculoskeletal diseases.

Achievements

April 2021	Received Encouragement grant by the Finnish Foundation for Technology Promotion for the topic "Learning based conditional image generation and manipulation using deep neural networks".
March 2020	Best papers candidates finalists in Winter Conference on Applications of Computer Vision (WACV '20).
Jan 2018	Fully funded Doctoral position from the school of Computing and Electrical Engineering, Tampere University.
Aug 2014- Aug 2016	GATE 2014 Scholarship from Ministry of Human Resource Development, India.

List of Publications

Selected Peer-reviewed Conference articles

[1]   Soumya Tripathy, Juho Kannala and Esa Rahtu."FACEGAN: Facial Attribute Controllable rEenactment GAN", In IEEE Winter Conference on Applications of Computer Vision (WACV) 2021.

[2]   Soumya Tripathy, Juho Kannala and Esa Rahtu."Icface: Interpretable and controllable face reenactment using gans", IEEE Winter Conference on Applications of Computer Vision (WACV) 2020.

[3]   Soumya Tripathy, Juho Kannala and Esa Rahtu. "Learning image-to-image translation using paired and unpaired training samples", In Asian Conference on Computer Vision (ACCV) 2018.

[4]   Soumya Tripathy, Kingshuk Chakravarty, Aniruddha Sinha, Debatri Chatterjee and Sanjoy Kumar Saha. "Constrained Kalman Filter For Improving Kinect Based Measurements", In IEEE International Symposium on Circuits And Systems (ISCAS) 2017

[5]   Soumya Tripathy, Kingshuk Chakravarty and Aniruddha Sinha, "Constrained Particle Filter for Improving Kinect Based Measurements" In EUropian SIgnal Processing COnference (EUSIPCO) 2018.

Selected Peer-reviewed journal articles

[1]   Rahul Dasharath Gavas, Sangheeta Roy, Debatri Chatterjee, Soumya Ranjan Tripathy, Kingshuk Chakravarty, Aniruddha Sinha "Enhancing the usability of low-cost eye trackers for rehabilitation applications." PloS one (2018).

[2]   Rahul D Gavas, Soumya Tripathy, Debatri Chatterjee and Aniruddha Sinha. "Cognitive load and metacognitive confidence extraction from pupillary response." Cognitive Systems Research (2018).

[3]   Soumya Tripathy, Ganapati Panda and Babita Majhi. "Constrained LMMSE based object specific reconstruction in compressive sensing." IET Signal Processing (2017).

Patents Field

[1]   "Particle filtering for continuous tracking and correction of body joint positions",
Kingshuk Chakravarty, Aniruddha Sinha, Soumya Ranjan Tripathy
US Application No. 16523491

[2]   "Constrained Linear Dynamic Filtering For Anthropometric Measurements",
Soumya Ranjan Tripathy, Kingshuk Chakravarty, Debatri Chatterjee, Aniruddha Sinha
India Application No. 201621042846

[3]   "Method and System For Removing a Plurality Of Noises From Eye Gaze Data", Aniruddha Sinha, Rahul Dasharath Gavas, Kingshuk Chakravarty Soumya Ranjan Tripathy, Debatri Chatterjee and Uttama Lahiri. India Application No. 201621043341

Skills

Languages:	Python, MATLAB, C, LaTeX
Deep Learning Tools:	Pytorch, Tensorflow

Signature: Soumya Ranjan Tripathy
Date: 27/04/2021